



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7  
25 FUNSTON ROAD  
KANSAS CITY, KANSAS 66115

AUG 29 1991

MEMORANDUM

SUBJECT: Data Review Comments for Region VII Data

FROM: Larry Marchin *LM*  
CLP-TPO, Region VII

TO: Edward Kantor  
EMSL-LV

Attached are the review comments for CLP data analyzed for Region VII under SAS No. (lab) 6568-G (AATS ).

If you have any comments or questions regarding this review, please call me at FTS 276-5170.

Attachments

cc: SMO Action: \_\_\_\_\_ FYI: X



04-00

ORGANIC DATA ASSESSMENT SUMMARY

CASE NO. 6568-G LABORATORY AATS  
SDG NO. 6568G-001 DATA USER \_\_\_\_\_  
SOW 2/88 REVIEW COMPLETION DATE 8/29/91  
NO. OF SAMPLES \_\_\_\_\_ WATER 10 SOIL \_\_\_\_\_ OTHER \_\_\_\_\_  
REVIEWER [ ] ESD [☒] ESAT [ ] OTHER, CONTRACT/CONTRACTOR \_\_\_\_\_

|                             | VOA      | BNA      | PEST    | OTHER   |
|-----------------------------|----------|----------|---------|---------|
| 1. HOLDING TIMES            | <u>O</u> | <u>O</u> | <u></u> | <u></u> |
| 2. GCMS TUNE/GC PERFORMANCE | <u>S</u> | <u>S</u> | <u></u> | <u></u> |
| 3. INITIAL CALIBRATIONS     | <u>↓</u> | <u>↓</u> | <u></u> | <u></u> |
| 4. CONTINUING CALIBRATIONS  | <u>X</u> | <u>X</u> | <u></u> | <u></u> |
| 5. FIELD BLANKS ("F" = N/A) | <u>F</u> | <u>P</u> | <u></u> | <u></u> |
| 6. LABORATORY BLANKS        | <u>X</u> | <u>O</u> | <u></u> | <u></u> |
| 7. SURROGATES               | <u>X</u> | <u>↓</u> | <u></u> | <u></u> |
| 8. MATRIX SPIKE/DUPLICATES  | <u>O</u> | <u>↓</u> | <u></u> | <u></u> |
| 9. REGIONAL QC ("F" = N/A)  | <u>F</u> | <u>F</u> | <u></u> | <u></u> |
| 10. INTERNAL STANDARDS      | <u>O</u> | <u>O</u> | <u></u> | <u></u> |
| 11. COMPOUND IDENTIFICATION | <u>↓</u> | <u>↓</u> | <u></u> | <u></u> |
| 12. COMPOUND QUANTITATION   | <u>↓</u> | <u>↓</u> | <u></u> | <u></u> |
| 13. SYSTEM PERFORMANCE      | <u>↓</u> | <u>↓</u> | <u></u> | <u></u> |
| 14. OVERALL ASSESSMENT      | <u>X</u> | <u>↓</u> | <u></u> | <u></u> |

O = No problems or minor problems that do not affect data usability.

X = No more than about 5% of the data points are qualified as either estimated or unusable.

M = More than about 5% of the data points are qualified as estimated.

Z = More than about 5% of the data points are qualified as unusable.

DPO ACTION ITEMS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AREAS OF CONCERN: \_\_\_\_\_

\_\_\_\_\_

**ENVIRONMENTAL SERVICES ASSISTANCE TEAM -- Zone II**

ICF Technology, Inc.

**Mantech Environmental Services, Inc.**

The Bionetics Corp.

ESAT Region VII  
ManTech Env. Serv. Inc.  
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TO: Barry Evans  
Data Review Task Monitor  
THRU: Harold Brown, Ph.D.  
ESAT Deputy Project Officer, EPA

FROM: John Gilchrist  
ESAT Data Reviewer  
THRU: Ronald A. Ross  
ESAT Team Manager

DATE: August 26, 1991  
SUBJECT: Review of volatile and semivolatile organic data for  
**CEDAR FALLS FMGP Site.**

TID#. 07-9103-535 ASSIGNMENT# 931  
ICF ACCT# 26-535-02 MANTECH S.O.# 1073-535  
ESAT Document No. ESAT-VII-535-0189

These data were reviewed primarily according to the general  
"Laboratory Data Validation Functional Guidelines for Evaluating  
Organic Analyses," February 1988 revision with changes given in the  
Region VII Organic Data Review Training Manual and EPA memorandums.

The following comments and attached data sheets are a result  
of the ESAT review, according to EPA policies, of the following  
data from the contract laboratory.

CASE NO.: SAS 6568G  
SITE: CEDAR FALLS FMGP  
REVIEWER: John Gilchrist

LABORATORY: AATS  
METHOD NO.: CS0288A  
EPA ACTIVITY NO.: DSX72  
MATRIX: SOIL

**VOLATILES**

**SOIL**

| <u>SMO Sample No.</u> | <u>EPA Sample No.</u> |
|-----------------------|-----------------------|
| 6568G001              | DSX72001              |
| 6568G002              | DSX72002              |
| 6568G003              | DSX72003              |
| 6568G004              | DSX72004              |
| 6568G005              | DSX72005              |
| 6568G006              | DSX72006              |
| 6568G007              | DSX72007              |
| 6568G008              | DSX72008              |
| 6568G009              | DSX72008D             |
| 6568G011              | DSX72101              |

**SEMIVOLATILES**

**SOIL**

| <u>SMO Sample No.</u> | <u>EPA Sample No.</u> |
|-----------------------|-----------------------|
| 6568G017              | DSX72001              |
| 6568G018              | DSX72002              |
| 6568G019              | DSX72003              |
| 6568G020              | DSX72004              |
| 6568G021              | DSX72005              |
| 6568G022              | DSX72006              |
| 6568G023              | DSX72007              |
| 6568G024              | DSX72008              |
| 6568G025              | DSX72008D             |
| 6568G026              | DSX72101              |

## **GENERAL**

This data review assignment covers 10 SOIL samples analyzed for VOLATILES and 10 SOIL samples analyzed for SEMIVOLATILES for SAS number 6568G. There were no field blanks, two field duplicates and no performance evaluation samples included with this assignment. Data review was performed at level two.

### **1. Holding Times and Preservation**

Volatiles: No technical holding times are specified for soil samples.

Semivolatiles: No technical holding times are specified for holding times from collection to extraction for soil samples. Technical holding times were observed for subsequent analysis of extracts.

### **2. GC/MS Tuning**

Volatiles: All relative ion abundances were within the established control limits.

Semivolatiles: All relative ion abundances were within the established control limits.

### **3. Initial and Continuing Calibration**

Volatiles: All compounds met the criteria of 0.05 for response factors for both initial and continuing calibrations. All compounds were within control limits for %RSD in the initial calibrations. Several compounds were outside the 25% criteria for % difference in the continuing calibrations. Acetone was J coded in sample DSX72001 due to these results.

Semivolatiles: All compounds met the criteria of 0.05 for response factors for both initial and continuing calibrations. Several compounds were outside the control limits for %RSD and % difference criteria for initial and continuing calibrations. Benzo(b)Fluoranthene was J coded in samples DSX72006, DSX72007, and DSX72008 due to these results.

### **4. Internal Standard Response**

Volatiles: Internal standards 1,4-Difluorobenzene and Chlorobenzene were outside control limits in the initial analysis of DSX72008D. All internal standards were within control limits on the re-analysis of this sample. No data were qualified due to this occurrence.

Semivolatiles: All internal standard criteria were within control limits.

## **5. Blanks**

Volatiles: Acetone, 2-Hexanone, and Chloroform were detected in the method blanks at levels below the CRDL. Acetone was U coded in sample DSX72008D, due to this occurrence.

Semivolatiles: No contaminants were found in the method blanks.

## **6. Surrogate Recovery**

Volatiles: Surrogate compound recoveries were out of control limits for sample DSX72008D, both for initial and re-analysis. Toluene-d8 was outside of contract required QC limits on the initial analysis. 1,2-Dichloroethane-d4 was outside control limits on the re-analysis of DSX72008D. As a result, Methylene Chloride and Tetrachloroethene were qualified with a J code in this sample.

Semivolatiles: Surrogate compound recoveries for 2,4,6-Tribromophenol were out of control limits for samples DSX72002, DSX72003, DSX72004, and DSX74005. No data were qualified by this result.

## **7. Matrix Spike/Matrix Spike Duplicate Recovery**

Volatiles: Matrix spike/Matrix spike values were all within the control ranges.

Semivolatiles: Matrix spike/Matrix spike values were all within the control ranges.

## **8. Performance Evaluation Sample**

There were no performance evaluation samples included with this sample package.

## **9. Compound Identification and Quantitation**

Due to the requested review level, results listed on the summary forms were used for the review. These results were not checked against the raw data for accuracy, and calculations were not verified.

## **10. Summary**

Volatiles: Calibration outliers resulted in qualification of data for one compound in one sample. Blank contamination caused qualification in one sample. Surrogate outliers caused J coding on one sample.

Semivolatiles: Calibration outliers resulted in data qualification in three samples. Surrogate outliers did not result in any data qualification.